



Indiana Academic Standards for Mathematics – Third Grade Adopted April 2014 – Standards Correlation Guide Document 7-25-2014

	Indiana Academic Standard for Indiana Academic Mathematics Standard Common Core State Standard					
	Third Grade Mathematics – Adopted April 2014	Adopted 2000	for Mathematics	Differences From Previous Standards		
	Process Standards					
MA.PS.1: Make	Mathematically proficient students start by explaining to	K.6.1: Choose the approach, materials, and strategies to use in	Make sense of problems and persevere in solving them.	IAS 2014 removes criteria involving a graphing calculator and		
sense of	themselves the meaning of a problem and looking for entry	solving problems.	Mathematically proficient students start by explaining to	does not distinguish between younger and older students.		
problems and	points to its solution. They analyze givens, constraints,		themselves the meaning of a problem and looking for entry	, , , , , , , , , , , , , , , , , , , ,		
	relationships, and goals. They make conjectures about the	1.6.1: Choose the approach, materials, and strategies to use in	points to its solution. They analyze givens, constraints,			
persevere in	form and meaning of the solution and plan a solution pathway,		relationships, and goals. They make conjectures about the form			
solving them.	rather than simply jumping into a solution attempt. They		and meaning of the solution and plan a solution pathway rather			
	consider analogous problems and try special cases and simpler	2.6.1: Choose the approach, materials, and strategies to use in	than simply jumping into a solution attempt. They consider			
	forms of the original problem in order to gain insight into its	solving problems.	analogous problems, and try special cases and simpler forms of			
	solution. They monitor and evaluate their progress and change		the original problem in order to gain insight into its solution.			
	course if necessary. Mathematically proficient students check		They monitor and evaluate their progress and change course if			
	their answers to problems using a different method, and they		necessary. Older students might, depending on the context of			
	continually ask themselves, "Does this make sense?" and "Is		the problem, transform algebraic expressions or change the			
	my answer reasonable?" They understand the approaches of		viewing window on their graphing calculator to get the			
	others to solving complex problems and identify		information they need. Mathematically proficient students can			
	correspondences between different approaches.		explain correspondences between equations, verbal			
	Mathematically proficient students understand how		descriptions, tables, and graphs or draw diagrams of important			
	mathematical ideas interconnect and build on one another to		features and relationships, graph data, and search for regularity			
	produce a coherent whole.		or trends. Younger students might rely on using concrete			
			objects or pictures to help conceptualize and solve a problem.			
			Mathematically proficient students check their answers to			
			problems using a different method, and they continually ask			
			themselves, "Does this make sense?" They can understand the			
			approaches of others to solving complex problems and identify			
			correspondences between different approaches.			
MA.PS.2:	Mathematically proficient students make sense of quantities	1.6.5: Understand and use connections between two problems.	2. Reason abstractly and quantitatively. Mathematically	IAS 2014 is similar to common core, both expand upon IAS 2000		
Reason	and their relationships in problem situations. They bring two		proficient students make sense of quantities and their	by having the student decontextualize problems and develop		
abstractly and	complementary abilities to bear on problems involving	2.6.5: Understand and use connections between two problems.	relationships in problem situations. They bring two	quantitative reasoning.		
quantitatively.	quantitative relationships: the ability to decontextualize—to		complementary abilities to bear on problems involving			
quantitutively	abstract a given situation and represent it symbolically and		quantitative relationships: the ability to decontextualize—to			
	manipulate the representing symbols as if they have a life of		abstract a given situation and represent it symbolically and			
	their own, without necessarily attending to their		manipulate the representing symbols as if they have a life of			
	referents—and the ability to contextualize, to pause as needed		their own, without necessarily attending to their			
	during the manipulation process in order to probe into the		referents—and the ability to contextualize, to pause as needed			
	referents for the symbols involved. Quantitative reasoning		during the manipulation process in order to probe into the			
	entails habits of creating a coherent representation of the		referents for the symbols involved. Quantitative reasoning			
	problem at hand; considering the units involved; attending to		entails habits of creating a coherent representation of the			
	the meaning of quantities, not just how to compute them; and		problem at hand; considering the units involved; attending to			
	knowing and flexibly using different properties of operations		the meaning of quantities, not just how to compute them; and			
	and objects.		knowing and flexibly using different properties of operations			
			and objects.			





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MA.PS.3:	Mathematically proficient students understand and use stated	K.6.3: Explain the reasoning used with concrete objects and	3. Construct viable arguments and critique the reasoning of	IAS 2014 is similar to common core, both expand upon IAS 2000	
Construct viable	assumptions, definitions, and previously established results in	pictures.	others. Mathematically proficient students understand and use	by having students construct arguments , use	
arguments and	constructing arguments. They make conjectures and build a		stated assumptions, definitions, and previously established	counterexamples, and critique others arguments. IAS 2014	
critique the	logical progression of statements to explore the truth of their	1.6.3: Explain the reasoning used and justify the procedures	results in constructing arguments. They make conjectures and	does not distinguish between younger and older students. IAS	
reasoning of	conjectures. They analyze situations by breaking them into	selected in solving a problem.	build a logical progression of statements to explore the truth of	2014 requires students to understand the meaning of	
others.	cases and recognize and use counterexamples. They organize		their conjectures. They are able to analyze situations by	quantities instead of merely knowing how to compute	
	their mathematical thinking, justify their conclusions and		breaking them into cases, and can recognize and use	quantities.	
	communicate them to others, and respond to the arguments of		counterexamples. They justify their conclusions, communicate		
	others. They reason inductively about data, making plausible		them to others, and respond to the arguments of others. They		
	arguments that take into account the context from which the		reason inductively about data, making plausible arguments that		
	data arose. Mathematically proficient students are also able to		take into account the context from which the data arose.		
	compare the effectiveness of two plausible arguments,		Mathematically proficient students are also able to compare		
	distinguish correct logic or reasoning from that which is flawed,		the effectiveness of two plausible arguments, distinguish		
	and—if there is a flaw in an argument—explain what it is. They		correct logic or reasoning from that which is flawed, and—if		
	justify whether a given statement is true always, sometimes, or		there is a flaw in an argument—explain what it is. Elementary		
	never. Mathematically proficient students participate and		students can construct arguments using concrete referents		
	collaborate in a mathematics community. They listen to or		such as objects, drawings, diagrams, and actions. Such		
	read the arguments of others, decide whether they make		arguments can make sense and be correct, even though they		
	sense, and ask useful questions to clarify or improve the		are not generalized or made formal until later grades. Later,		
	arguments.		students learn to determine domains to which an argument		
			applies. Students at all grades can listen or read the arguments		
			of		
			others, decide whether they make sense, and ask useful		
MA.PS.4: Model	1	K.6.2: Use tools such as objects or drawings to model problems.	4. Model with mathematics. Mathematically proficient	IAS 2014 has removed examples and does not distinguish	
with	know to solve problems arising in everyday life, society, and the		students can apply the mathematics they know to solve	between younger and older students.	
mathematics.	workplace using a variety of appropriate strategies. They	1.6.2: Use tools such as objects or drawings to model problems.	problems arising in everyday life, society, and the workplace. In		
	create and use a variety of representations to solve problems		early grades, this might be as simple as writing an addition		
	and to organize and communicate mathematical ideas.	2.6.2: Use tools such as objects or drawings to model problems.	equation to describe a situation. In middle grades, a student		
	Mathematically proficient students apply what they know and		might apply proportional reasoning to plan a school event or		
	are comfortable making assumptions and approximations to		analyze a problem in the community. By high school, a student		
	simplify a complicated situation, realizing that these may need		might use geometry to solve a design problem or use a function		
	revision later. They are able to identify important quantities in		to describe how one quantity of interest depends on another.		
	a practical situation and map their relationships using such		Mathematically		
	tools as diagrams, two-way tables, graphs, flowcharts and		proficient students who can apply what they know are		
	formulas. They analyze those relationships mathematically to		comfortable making assumptions and approximations to		
	draw conclusions. They routinely interpret their mathematical		simplify a complicated situation, realizing that these may need		
	results in the context of the situation and reflect on whether		revision later. They are able to identify important quantities in a		
	the results make sense, possibly improving the model if it has		practical situation and map their relationships using such tools		
	not served its purpose.		as diagrams, two-way tables, graphs, flowcharts and formulas.		
			They can analyze those relationships mathematically to draw		
			conclusions. They routinely interpret their mathematical results		
			in the context of the situation and reflect on whether the		
			results make sense, possibly improving the model if it has not		





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MA.PS.5: Use	Mathematically proficient students consider the available tools	K.6.2: Use tools such as objects or drawings to model problems.	5. Use appropriate tools strategically. Mathematically proficient	IAS 2014 does not distinguish between younger and older	
appropriate	when solving a mathematical problem. These tools might		students consider the available tools when solving a	students. Both IAS 2014 and CCSS expand upon IAS 2000 by	
tools	include pencil and paper, models, a ruler, a protractor, a	1.6.2: Use tools such as objects or drawings to model problems.	mathematical problem. These tools might include pencil and	having students consider more than just graphing. IAS 2014	
strategically.	calculator, a spreadsheet, a computer algebra system, a		paper, concrete models, a ruler, a protractor, a calculator, a	requires students to apply their problem solving strategies to	
	statistical package, or dynamic geometry software.	2.6.2: Use tools such as objects or drawings to model problems.	spreadsheet, a computer algebra system, a statistical package,	everyday life situations, and students are required to draw	
	Mathematically proficient students are sufficiently familiar with		or dynamic geometry software. Proficient students are	conclusions and interpret results based on data found from	
	tools appropriate for their grade or course to make sound		sufficiently familiar with tools appropriate for their grade or	models.	
	decisions about when each of these tools might be helpful,		course to make sound decisions about when each of these		
	recognizing both the insight to be gained and their limitations.		tools might be helpful, recognizing both the insight to be gained		
	Mathematically proficient students identify relevant external		and their limitations. For example, mathematically proficient		
	mathematical resources, such as digital content, and use them		high school students analyze graphs of functions and solutions		
	to pose or solve problems. They use technological tools to		generated using a graphing calculator. They detect possible		
	explore and deepen their understanding of concepts and to		errors by strategically using estimation and other mathematical		
	support the development of learning mathematics. They use		knowledge. When making mathematical models, they know		
	technology to contribute to concept development, simulation,		that technology can enable them to visualize the results of		
	representation, reasoning, communication and problem		varying assumptions, explore consequences, and compare		
	solving.		predictions with data. Mathematically proficient students at		
			various grade levels are able to identify relevant external		
			mathematical resources, such as digital content located on a		
			website, and use them to pose or solve problems. They are able		
			to use technological tools to explore and deepen their		
			understanding of concepts.		
MA.PS.6: Attend	Mathematically proficient students communicate precisely to	K.6.4: Make precise calculations and check the validity of the	6. Attend to precision. Mathematically proficient students try	IAS 2014 does not distinguish between younger and older	
to precision.	others. They use clear definitions, including correct	results in the context of the problem.	to communicate precisely to others. They try to use clear	students.	
	mathematical language, in discussion with others and in their		definitions in discussion with others and in their own reasoning.		
	own reasoning. They state the meaning of the symbols they	1.6.4: Make precise calculations and check the validity of the	They state the meaning of the symbols they choose, including		
	choose, including using the equal sign consistently and	results in the context of the problem.	using the equal sign consistently and appropriately. They are		
	appropriately. They express solutions clearly and logically by		careful about specifying units of measure, and labeling axes to		
		2.6.4: Make precise calculations and check the validity of the	clarify the correspondence with quantities in a problem. They		
	specify units of measure and label axes to clarify the	results in the context of the problem.	calculate accurately and efficiently, express numerical answers		
	correspondence with quantities in a problem. They calculate		with a degree of precision appropriate for the problem context.		
	accurately and efficiently and check the validity of their results		In the elementary grades, students give carefully formulated		
	in the context of the problem. They express numerical answers		explanations to each other. By the time they reach high school		
	with a degree of precision appropriate for the problem context.		they have learned to examine claims and make explicit use of		
			definitions.		





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MA.PS.7: Look	Mathematically proficient students look closely to discern a		7. Look for and make use of structure. Mathematically	IAS 2014 has removed examples and does not distinguish
for and make	pattern or structure. They step back for an overview and shift		proficient students look closely to discern a pattern or	between younger and older students. Both IAS 2014 and CCSS
use of structure.	perspective. They recognize and use properties of operations		structure. Young students, for example, might notice that three	· · · · · · · · · · · · · · · · · · ·
	and equality. They organize and classify geometric shapes		and seven more is the same amount as seven and three more,	structure, geometric figures, and composition of objects.
	based on their attributes. They see expressions, equations, and		or they may sort a	
	geometric figures as single objects or as being composed of		collection of shapes according to how many sides the shapes	
	several objects.		have. Later, students will see 7 × 8 equals the well	
			remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the	
			distributive property. In the expression x ² + 9x + 14, older	
			students can see the 14 as 2 × 7 and the 9 as 2 + 7. They	
			recognize the significance of an existing line in a geometric	
			figure and can use the strategy of drawing an auxiliary line for	
			solving problems. They also can step back for an overview and	
			shift perspective. They can see complicated things, such as	
			some algebraic expressions, as single objects or as being	
			composed of several objects. For example, they can see 5 – 3(x	
			- y) ² as 5 minus a positive number times a square and use that	
			to realize that its value cannot be more than 5 for any real	
				140 2044
MA.PS.8: Look	Mathematically proficient students notice if calculations are		8. Look for and express regularity in repeated reasoning.	IAS 2014 has removed examples and does not distinguish
for and express	repeated and look for general methods and shortcuts. They		Mathematically proficient students notice if calculations are	between younger and older students.
regularity in	notice regularity in mathematical problems and their work to		repeated, and look both for general methods and for shortcuts.	
repeated	create a rule or formula. Mathematically proficient students		Upper elementary students might notice when dividing 25 by	
reasoning.	maintain oversight of the process, while attending to the		11 that they are repeating the same calculations over and over	
	details as they solve a problem. They continually evaluate the		again, and conclude they have a repeating decimal. By paying	
	reasonableness of their intermediate results.		attention to the calculation of slope as they repeatedly check	
			whether points are on the line through (1, 2) with slope 3,	
			middle school students might abstract the equation $(y - 2)/(x - 2)$	
			1) = 3. Noticing the regularity in the way terms cancel when	
			expanding $(x - 1)(x + 1)$, $(x - 1)(x^2 + x + 1)$, and $(x - 1)(x^3 + x^2 + x)$	
			+ 1) might lead them to the general formula for the sum of a	
			geometric series. As they work to solve a problem,	
			mathematically proficient students maintain oversight of the	
			process, while attending to the details. They continually	
			evaluate the reasonableness of their intermediate results.	
		Number Sense		
	Read and write whole numbers up to 10,000. Use words, models,	3.1.1: Count, read, and write whole numbers up to 1,000.		
	standard form and expanded form to represent and show			IAS 2014 goes to 10,000.
	equivalent forms of whole numbers up to 10,000.	3.1.3: Use words, models, and expanded form to represent		
MA.3.NS.1:		numbers up to 1,000.		
	Compare two whole numbers up to 10,000 using >, =, and <	3.1.5: Compare whole numbers up to 1,000 and arrange them in		
MA.3.NS.2:	symbols.	numerical order.		
	Understand a fraction, 1/b, as the quantity formed by 1 part	2.1.8: Recognize fractions as parts of a whole or parts of a group	3.NF.1: Understand a fraction 1/b as the quantity formed by 1	IAC 2014 and CCCC introduce the I
	when a whole is partitioned into b equal parts; understand a	(up to 12 parts).	part when a whole is partitioned into b equal parts; understand a	IAS 2014 and CCSS introduce the a and b notation of fractions.
MA.3.NS.3:	fraction, a/b, as the quantity formed by a parts of size 1/b. [In		fraction a/b as the quantity formed by a parts of size 1/b.	IAS 2014 also limits the denominators provided in 3rd grade.
IVIA.3.IV3.3.	grade 3, limit denominators of fractions to 2, 3, 4, 6, 8.] Represent a fraction, 1/b, on a number line by defining the		3.NF.2.a: Represent a fraction 1/b on a number line diagram by	
	interval from 0 to 1 as the whole, and partitioning it into b equal		defining the interval from 0 to 1 as the whole and partitioning it	
	parts. Recognize that each part has size 1/b and that the endpoint		into b equal parts. Recognize that each part has size 1/b and that	
	of the part based at 0 locates the number 1/b on the number line.		the endpoint of the part based at 0 locates the number 1/b on the	
MA.3.NS.4:	or the part based at 0 locates the humber 1/0 on the humber line.		number line.	
	Represent a fraction, a/b, on a number line by marking off lengths		3.NF.2.b: Represent a fraction a/b on a number line diagram by	
	1/b from 0. Recognize that the resulting interval has size a/b, and		marking off a lengths 1/b from 0. Recognize that the resulting	
	that its endpoint locates the number a/b on the number line.		interval has size a/b and that its endpoint locates the number a/b	
MA.3.NS.5:	and the state of t		on the number line.	





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	Understand two fractions as equivalent (equal) if they are the		3.NF.3a: Understand two fractions as equivalent (equal) if they		
	same size, based on the same whole or the same point on a		are the same size, or the same point on a number line.		
MA.3.NS.6:	number line.				
	Recognize and generate simple equivalent fractions (e.g., 1/2 =	3.1.8: Show equivalent fractions using equal parts.	3.NF.3b: Recognize and generate simple equivalent fractions, e.g.,		
	2/4, $4/6 = 2/3$). Explain why the fractions are equivalent (e.g., by		1/2 = 2/4, 4/6 = 2/3. Explain why the	IAS 2014 and CCSS expect students to be able to explain	
	using a visual fraction model).		fractions are equivalent, e.g., by using a visual fraction model.	equivalent fractions.	
MA.3.NS.7:	Comment of the state of the sta	24.0. December 20.4.2.4.2.4.2.4.2.4.2.4.2.4.2.4.2.4.2.4	2 NE 2-L Comment of the street like the comment of the		
	Compare two fractions with the same numerator or the same denominator by reasoning about their size based on the same	2.1.9: Recognize, name, and compare the unit fractions: 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, and 1/12.	3.NF.3d: Compare two fractions with the same numerator or the same denominator by reasoning about their size. Recognize that		
	whole. Record the results of comparisons with the symbols >, =,	174, 175, 176, 178, 1710, and 1712.	comparisons are valid only when the two fractions refer to the		
	or <, and justify the conclusions (e.g., by using a visual fraction	3.1.10: Given a pair of fractions, decide which is larger or smaller	same whole.		
	model).	by using objects or pictures.	Record the results of comparisons with the symbols >, =, or <, and		
	model,	by asing objects or pictares.	justify the conclusions, e.g., by using a visual fraction model.		
MA.3.NS.8:					
	Use place value understanding to round 2- and 3-digit whole	3.1.6: Round numbers less than 1,000 to the nearest ten and the	3.NBT.1: Use place value understanding to round whole numbers		
MA.3.NS.9:	numbers to the nearest 10 or 100.	nearest hundred.	to the nearest 10 or 100.		
		Computation			
	Add and subtract whole numbers fluently within 1000.	3.2.1: Add and subtract whole numbers up to 1,000 with or	3.NBT.2: Fluently add and subtract within 1000 using strategies		
		without regrouping, using relevant properties	and algorithms based on place value, properties of operations,	IAS 2014 removes stipulations on how to add or subtract within	
		of the number system.	and/or the relationship between addition and subtraction.	1000	
MA.3.C.1:					
	Represent the concept of multiplication of whole numbers with	3.2.2: Represent the concept of multiplication as repeated	3.OA.1: Interpret products of whole numbers, e.g., interpret 5 × 7		
	the following models: equal-sized groups, arrays, area models,	addition.	as the total number of objects in 5 groups of 7 objects each.	IAS 2014 is more specific and includes concept models.	
MA.3.C.2:	and equal "jumps" on a number line. Understand the properties			·	
IVIA.3.C.2.	of 0 and 1 in multiplication. Represent the concept of division of whole numbers with the	3.2.3: Represent the concept of division as repeated subtraction,			
	following models: partitioning, sharing, and an inverse of	equal sharing, and forming equal groups.			
	multiplication. Understand the properties of 0 and 1 in division.	equal straining, and forming equal groups.			
	marapheation. Orderstand the properties of 6 and 1 in division.	4.2.7: Understand the special properties of 0 and 1 in			
MA.3.C.3:		multiplication and division.			
	Interpret whole-number quotients of whole numbers (e.g.,		3.OA.2: Interpret whole-number quotients of whole numbers,		
	interpret 56 ÷ 8 as the number of objects in each share when 56		e.g., interpret 56 ÷ 8 as the number of objects in each share when		
	objects are partitioned equally into 8 shares, or as a number of		56 objects are partitioned equally into 8 shares, or as a number of		
	shares when 56 objects are partitioned into equal shares of 8		shares when 56		
	objects each).		objects are partitioned into equal shares of 8 objects each.		
MA.3.C.4:					
	Multiply and divide within 100 using strategies, such as the	3.2.4: Know and use the inverse relationship between	3.OA.5: Apply properties of operations as strategies to multiply		
	relationship between multiplication and division (e.g., knowing	multiplication and division facts, such as 6 x 7 = 42,	and divide.		
	that $8 \times 5 = 40$, one knows $40 \div 5 = 8$), or properties of operations.	42 / 7 = 6, 7 x 6 = 42, 42 / 6 = 7.	2 OA 5: Understand division as an unbrown feater make	IAS 2014 expects students to know strategies for multiplication	
			3.OA.6: Understand division as an unknown-factor problem.	and division not just memorizing facts tables.	
			3.NBT.3: Multiply one-digit whole numbers by multiples of 10 in	and division not just memorizing facts tables.	
			the range 10-90 (e.g., 9 × 80, 5 × 60) using strategies based on		
MA.3.C.5:			place value and properties of operations.		
	Demonstrate fluency with multiplication facts and corresponding	3.2.5: Show mastery of multiplication facts for 2, 5, and 10.			
MA.3.C.6:	division facts of 0 to 10.				
	Algebraic Thinking				
	Solve real-world problems involving addition and subtraction of	3.3.2: Solve problems involving numeric equations.			
	whole numbers within 1000 (e.g., by using drawings and			IAS 2014 is more specific about the problems students should	
	equations with a symbol for the unknown number to represent			be able to solve.	
MA.3.AT.1:	the problem).				
		3.3.2: Solve problems involving numeric equations.	3.OA.3: Use multiplication and division within 100 to solve word		
	and division within 100 in situations involving equal groups,		problems in situations involving equal	IAS 2014 and CCSS is more specific about the problems	
	arrays, and measurement quantities (e.g., by using drawings and		groups, arrays, and measurement quantities, e.g., by using	students should be able to solve.	
MA.3.AT.2:	equations with a symbol for the unknown number to represent		drawings and equations with a symbol for the unknown number		
MIN.3.71.4.	the problem).	I	to represent the problem.	1	





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MA.3.AT.3:	Solve two-step real-world problems using the four operations of addition, subtraction, multiplication and division (e.g., by using drawings and equations with a symbol for the unknown number to represent the problem).	3.3.2: Solve problems involving numeric equations.	3.OA.8: Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	IAS 2014 and CCSS is more specific about the problems students should be able to solve.	
MA.3.AT.4:	Interpret a multiplication equation as equal groups (e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each). Represent verbal statements of equal groups as multiplication equations.		3.OA.1: Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each.		
MA.3.AT.5:	Determine the unknown whole number in a multiplication or division equation relating three whole numbers.		3.OA.4: Determine the unknown whole number in a multiplication or division equation relating three whole numbers.		
MA.3.AT.6:	Create, extend, and give an appropriate rule for number patterns using multiplication within 100.	3.3.5: Create, describe, and extend number patterns using multiplication.	3.OA.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.		
	•	Geometry			
MA.3.G.1:	Identify and describe the following: cube, sphere, prism, pyramid, cone, and cylinder.	3.4.3: Identify, describe, and classify: cube, sphere, prism, pyramid, cone, and cylinder.			
	Understand that shapes (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize and draw rhombuses, rectangles, and squares as examples of quadrilaterals. Recognize and draw examples of quadrilaterals that do not belong to any of these subcategories.	3.4.1: Identify quadrilaterals as four-sided shapes. 3.4.10: Recognize geometric shapes and their properties in the environment and specify their locations	3.G.1: Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these	IAS 2014 and CCSS define more shapes to learn and for students to identify common attributes.	
MA.3.G.2:	Identify, describe and draw points, lines and line segments using appropriate tools (e.g., ruler, straightedge, and technology), and use these terms when describing two-dimensional shapes.	3.4.6: Use the terms point, line, and line segment in describing two-dimensional shapes.	<u>subcategories</u> . 4.G.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	IAS 2014 and CCSS intend for students to use a variety of tools for drawing.	
MA.3.G.3:	Partition shapes into parts with equal areas. Express the area of	3.4.7: Draw line segments and lines.	3.G.2: Partition shapes into parts with equal areas. Express the	Tot drawing.	
MA.3.G.4:	each part as a unit fraction of the whole (1/2, 1/3, 1/4, 1/6, 1/8).		area of each part as a unit fraction of the whole.		
	_	Measurement			
MA.3.M.1:	Estimate and measure the mass of objects in grams (g) and kilograms (kg) and the volume of objects in quarts (qt), gallons (gal), and liters (l). Add, subtract, multiply, or divide to solve onestep real-world problems involving masses or volumes that are given in the same units (e.g., by using drawings, such as a beaker with a measurement scale, to represent the problem).	3.5.6: Estimate and measure capacity using quarts, gallons, and liters. 3.5.7: Estimate and measure weight using pounds and kilograms.	3.MD.2: Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.	IAS 2014 expects students to be able to perform measurement problems using addition, subtraction, multiplication, and division and use diverse tools for measuring.	
	Choose and use appropriate units and tools to estimate and measure length, weight, and temperature. Estimate and measure length to a quarter-inch, weight in pounds, and temperature in degrees Celsius and Fahrenheit.	2.5.3: Decide which unit of length is most appropriate in a given situation. 2.5.8: Estimate temperature. Read a thermometer in Celsius and Fahrenheit. 3.5.1: Measure line segments to the nearest half-inch.			
MA.3.M.2:		3.5.8: Compare temperatures in Celsius and Fahrenheit.			
MA.3.M.3:	Tell and write time to the nearest minute from analog clocks, using a.m. and p.m., and measure time intervals in minutes. Solve real-world problems involving addition and subtraction of time intervals in minutes.	3.5.9: Tell time to the nearest minute and find how much time has elapsed.	3.MD.1: Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	IAS 2014 expects students to solve real world problems.	





Indiana Academic Standards for Mathematics – Third Grade

	Adopted April 2014 – Standards Correlation Guide Document 7-25-2014				
	Indiana Academic Standard for	Indiana Academic Mathematics Standard	Common Core State Standard	Differences From Previous Standards	
	Third Grade Mathematics – Adopted April 2014 Find the value of any collection of coins and bills. Write amounts	Adopted 2000 3.5.10: Find the value of any collection of coins and bills. Write	for Mathematics		
	less than a dollar using the ¢ symbol and write larger amounts less than a dollar using the ¢ symbol and write larger amounts using the \$ symbol in the form of dollars and cents (e.g., \$4.59). Solve real-world problems to determine whether there is enough money to make a purchase.	3.5.10: Find the value of any collection of coins and bills. Write amounts less than a dollar using the ¢ symbol and write larger amounts in decimal notation using the \$ symbol. 3.5.11: Use play or real money to decide whether there is enough money to make a purchase.		IAS 2014 expects students to solve real world problems.	
MA.3.M.4:	Find the case of a sectional a with whole a weben side lengths by	2. C. Catimosta on find the organ of change has consider them with	2 MAD For A servers with side length 1 with colled the write servers !!		
	Find the area of a rectangle with whole-number side lengths by modeling with unit squares, and show that the area is the same as would be found by multiplying the side lengths. Identify and draw rectangles with the same perimeter and different areas or with the same area and different perimeters.	3.5.4: Estimate or find the area of shapes by covering them with squares. 4.5.6: Understand that rectangles with the same area can have different perimeters and that rectangles with the same perimeter can have different areas.	3.MD.5a: A square with side length 1 unit, called "a unit square," is said to have "one square unit" of area, and can be used to measure area. 3.MD.5b: A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units.		
			3.MD.6: Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units). 3.MD.7a: Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would		
MA.3.M.5:			be found by multiplying the side lengths.		
	Multiply side lengths to find areas of rectangles with whole- number side lengths to solve real-world problems and other mathematical problems involving shapes, and represent whole- number products as rectangular areas in mathematical reasoning.	4.5.4: Know and use formulas for finding the areas of rectangles and squares. 4.5.5: Estimate and calculate the area of rectangular shapes using appropriate units, such as square centimeter (cm²), square meter (m²), square inch (in²), or square	3.MD.7b: Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number	IAS 2014 expects students to solve real world problems but does not specifically mention appropriate units.	
MA.3.M.6:	Find a six stars of a boson six at the side boother on by Godina	yard (yd²).	2 MD 0. Color and the description of the descriptio		
	Find perimeters of polygons given the side lengths or by finding an unknown side length.	3.5.3: Find the perimeter of a polygon.	3.MD.8: Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.		
MA.3.M.7:					
	Constructed of the second of t	Data Analysis	2 MD 2 Days and distance and and and distance and to	T	
MA.3.DA.1:	Create scaled picture graphs, scaled bar graphs, and frequency tables to represent a data set—including data collected through observations, surveys, and experiments—with several categories. Solve one- and two-step "how many more" and "how many less" problems regarding the data and make predictions based on the data.		3.MD.3: Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs.	IAS 2014 defines data collection techniques and expects students to create data representations.	
MA.3.DA.2:	Generate measurement data by measuring lengths with rulers to the nearest quarter of an inch. Display the data by making a line plot, where the horizontal scale is marked off in appropriate units, such as whole numbers, halves, or quarters.		3.MD.4: Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units-whole numbers, halves, or quarters.		
		Unaligned Indiana Academic Mathematics Standard	Unaligned Common Core State Standard		
		Adopted 2000 3.1.2: Identify and interpret place value in whole numbers up to 1,000.	for Mathematics 3.MD.7c: Use tiling to show in a concrete case that the area of a rectangle with whole-number side lengths a and $b + c$ is the sum of a \times b and a \times c. Use area models to represent the distributive property in mathematical reasoning.		
		3.1.4: Identify any number up to 1,000 in various combinations of hundreds, tens, and ones. $ \\$			





Indiana Academic Standards for Mathematics – Third Grade

Adopted April 2014 – Standards Correlation Guide Document 7-25-2014

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Indiana Academic Standard for	Indiana Academic Mathematics Standard	Common Core State Standard	Differences From Previous Standards	
Third Grade Mathematics – Adopted April 2014	Adopted 2000	for Mathematics	Differences From Previous Standards	
	3.1.7: Identify odd and even numbers up to 1,000 and describe			
	their characteristics.			
	3.1.9: Use the correct names for numerators and denominators.			
	3.3.1: Represent relationships of quantities in the form of a			
	numeric expression or equation.			
	3.3.3: Choose appropriate symbols for operations and relations to			
	make a number sentence true.			
	3.3.6: Solve simple problems involving a functional relationship			
	between two quantities.			